

# A METHOD FOR WAKING A DEVICE IN RESPONSE TO A WIRELESS NETWORK ACTIVITY

## ABSTRACT OF THE INVENTION

A method and a system for data transmission between a first electronic device and a second electronic device, wherein the second electronic device is in a sleep mode. Transmission of data between the first electronic device and the second electronic device occurs while a microprocessor in the second device is in sleep mode and the wireless transceiver is in a wake mode. The first electronic device transmits data signals and the second electronic device detects the transmitted signal. A base band processor in the second electronic device optionally determines if the signal is from a known source. If the first electronic device is a known electronic device, an interrupt signal is generated to wake up the microprocessor in the second electronic device. The awakened microprocessor opens a communication port and disables the wake-up interrupt. In yet another embodiment of the present invention, the data receive line is directly coupled to a line that triggers an interrupt when a signal is detected. The received message is then stored in memory for subsequent use.